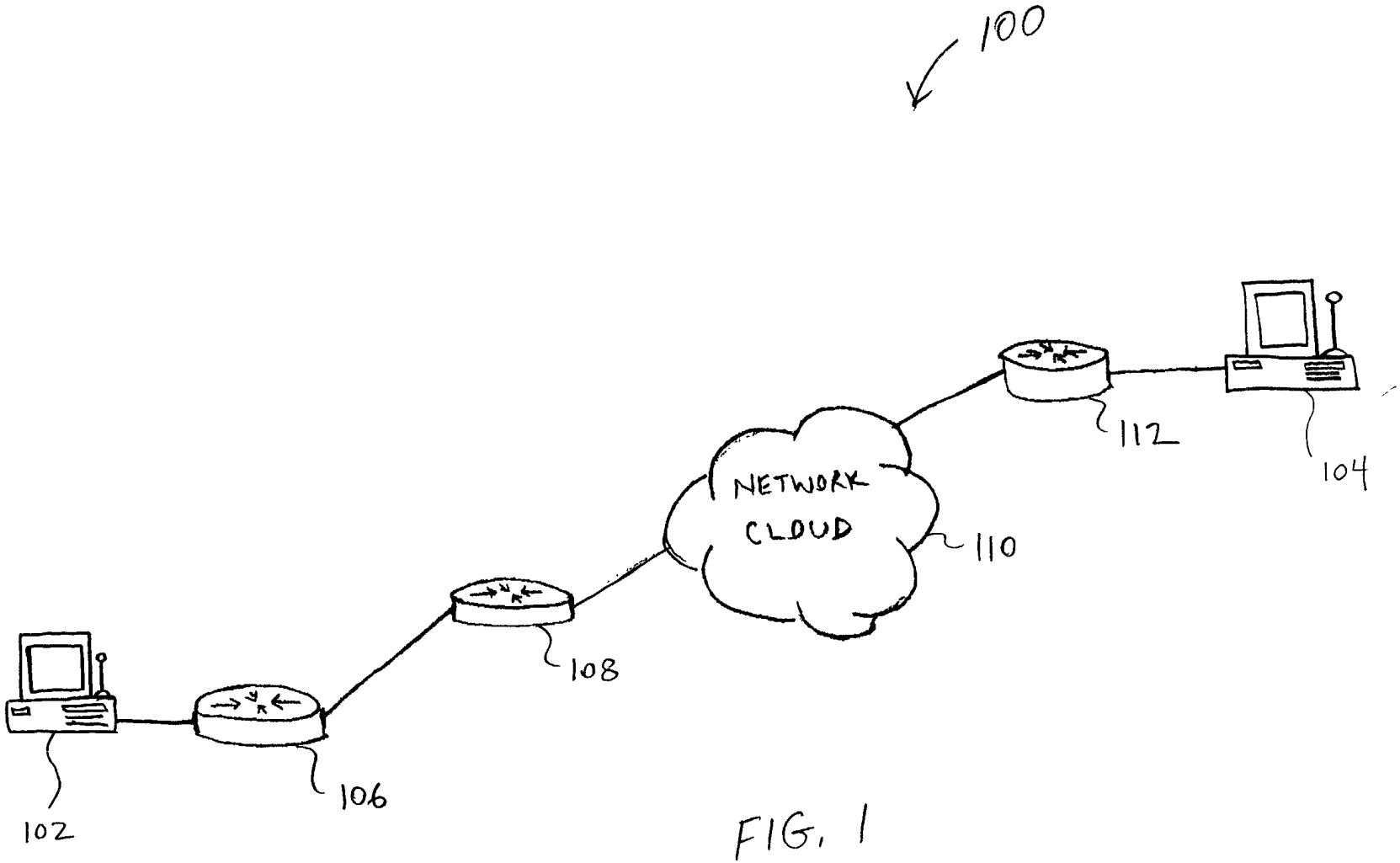

FIG. 1

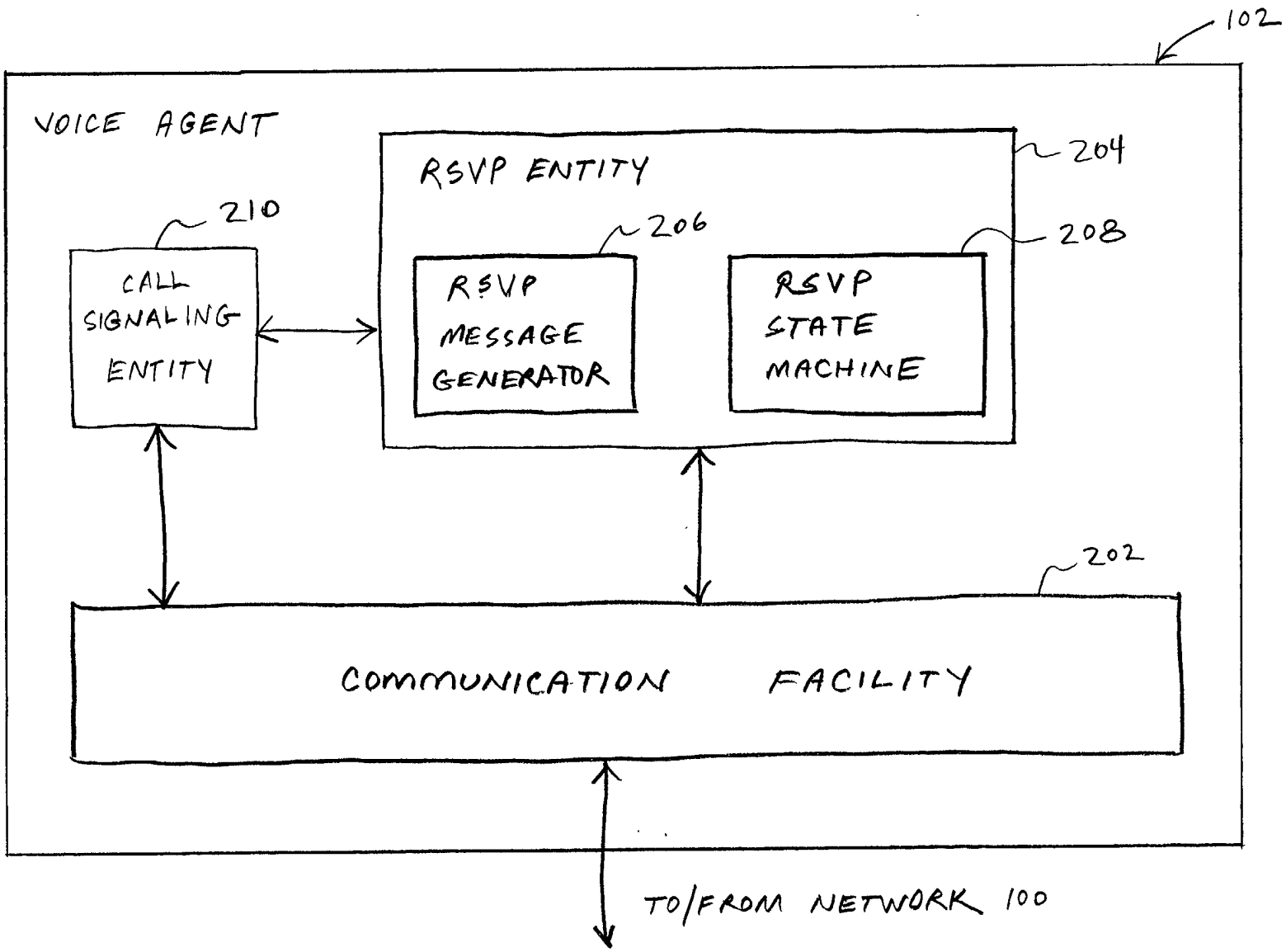

FIG. 2

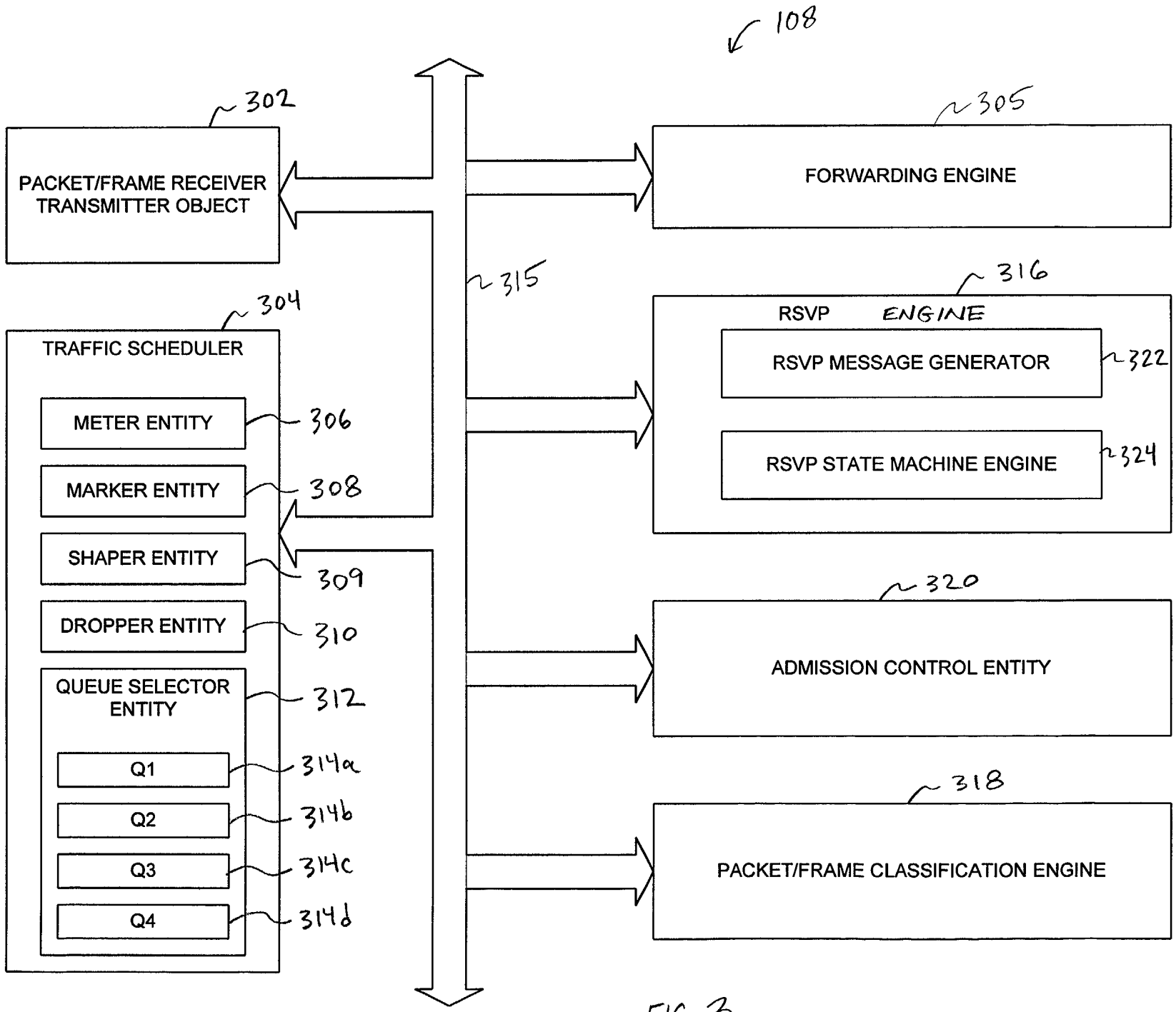

FIG. 3

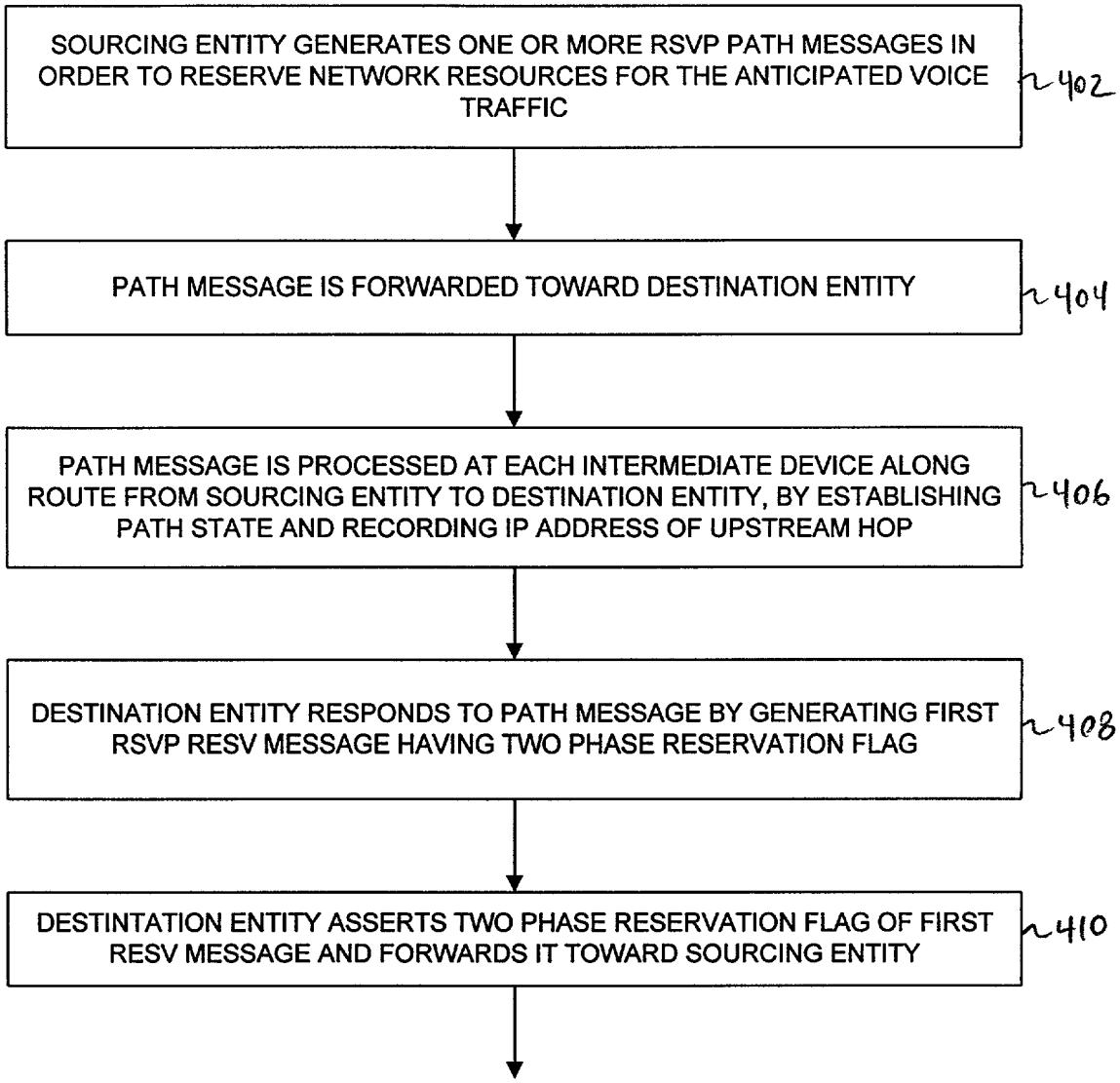
SOURCING ENTITY GENERATES ONE OR MORE RSVP PATH MESSAGES IN ORDER TO RESERVE NETWORK RESOURCES FOR THE ANTICIPATED VOICE TRAFFIC
402
PATH MESSAGE IS FORWARDED TOWARD DESTINATION ENTITY
404
PATH MESSAGE IS PROCESSED AT EACH INTERMEDIATE DEVICE ALONG ROUTE FROM SOURCING ENTITY TO DESTINATION ENTITY, BY ESTABLISHING PATH STATE AND RECORDING IP ADDRESS OF UPSTREAM HOP
406
DESTINATION ENTITY RESPONDS TO PATH MESSAGE BY GENERATING FIRST RSVP RESV MESSAGE HAVING TWO PHASE RESERVATION FLAG
408
DESTINTATION ENTITY ASSERTS TWO PHASE RESERVATION FLAG OF FIRST RESV MESSAGE AND FORWARDS IT TOWARD SOURCING ENTITY
410
TO FIG. 4B

FIG. 4A

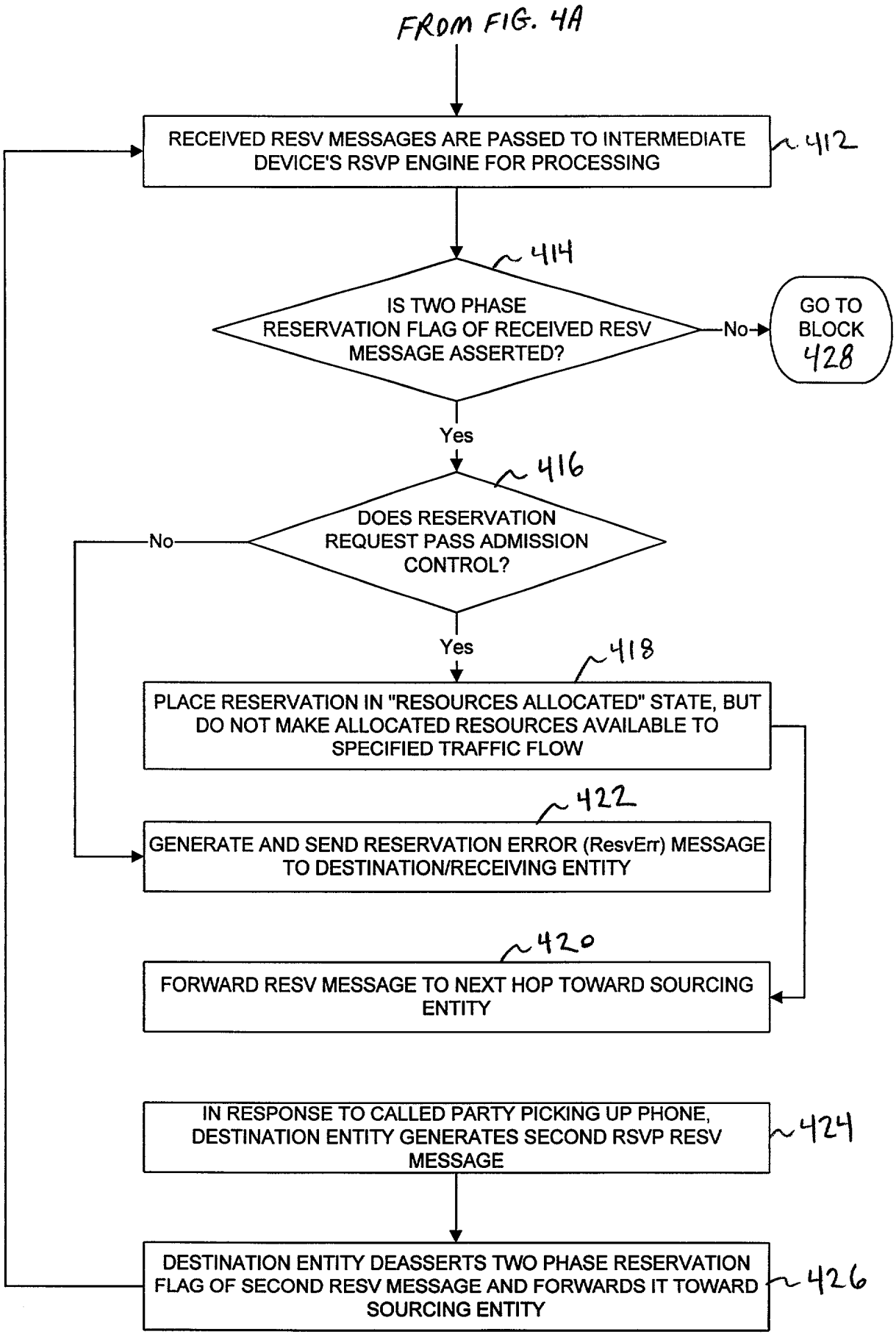
FROM FIG. 4A
RECEIVED RESV MESSAGES ARE PASSED TO INTERMEDIATE DEVICE'S RSVP ENGINE FOR PROCESSING
412
414
IS TWO PHASE RESERVATION FLAG OF RECEIVED RESV MESSAGE ASSERTED?
No
GO TO BLOCK 428
Yes
416
DOES RESERVATION REQUEST PASS ADMISSION CONTROL?
No
Yes
418
PLACE RESERVATION IN "RESOURCES ALLOCATED" STATE, BUT DO NOT MAKE ALLOCATED RESOURCES AVAILABLE TO SPECIFIED TRAFFIC FLOW
422
GENERATE AND SEND RESERVATION ERROR (ResvErr) MESSAGE TO DESTINATION/RECEIVING ENTITY
420
FORWARD RESV MESSAGE TO NEXT HOP TOWARD SOURCING ENTITY
IN RESPONSE TO CALLED PARTY PICKING UP PHONE, DESTINATION ENTITY GENERATES SECOND RSVP RESV MESSAGE
424
DESTINATION ENTITY DEASSERTS TWO PHASE RESERVATION FLAG OF SECOND RESV MESSAGE AND FORWARDS IT TOWARD SOURCING ENTITY
426

FIG. 4B

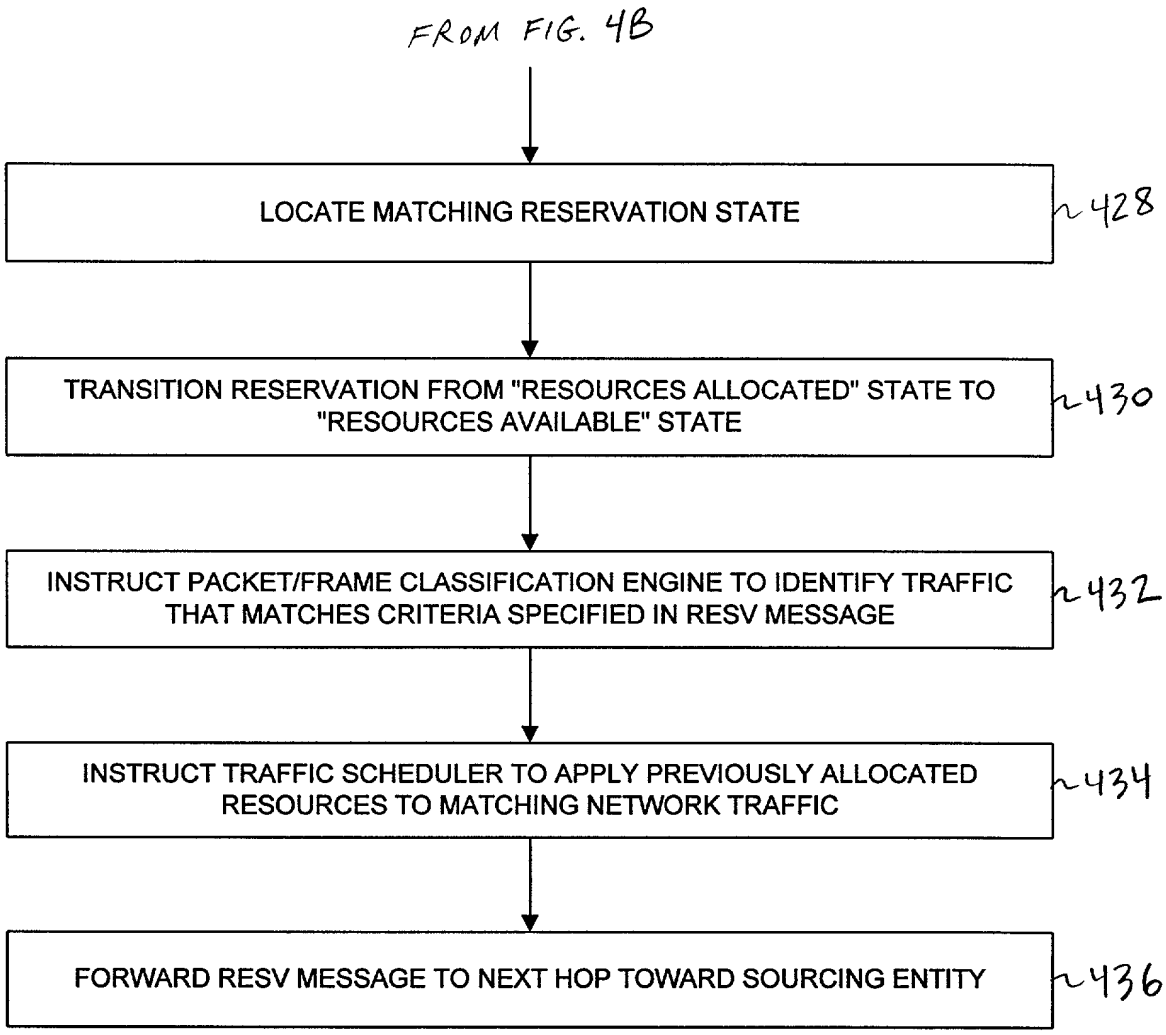
FROM FIG. 4B
LOCATE MATCHING RESERVATION STATE
428
TRANSITION RESERVATION FROM "RESOURCES ALLOCATED" STATE TO "RESOURCES AVAILABLE" STATE
430
INSTRUCT PACKET/FRAME CLASSIFICATION ENGINE TO IDENTIFY TRAFFIC THAT MATCHES CRITERIA SPECIFIED IN RESV MESSAGE
432
INSTRUCT TRAFFIC SCHEDULER TO APPLY PREVIOUSLY ALLOCATED RESOURCES TO MATCHING NETWORK TRAFFIC
434
FORWARD RESV MESSAGE TO NEXT HOP TOWARD SOURCING ENTITY
436

FIG. 4C

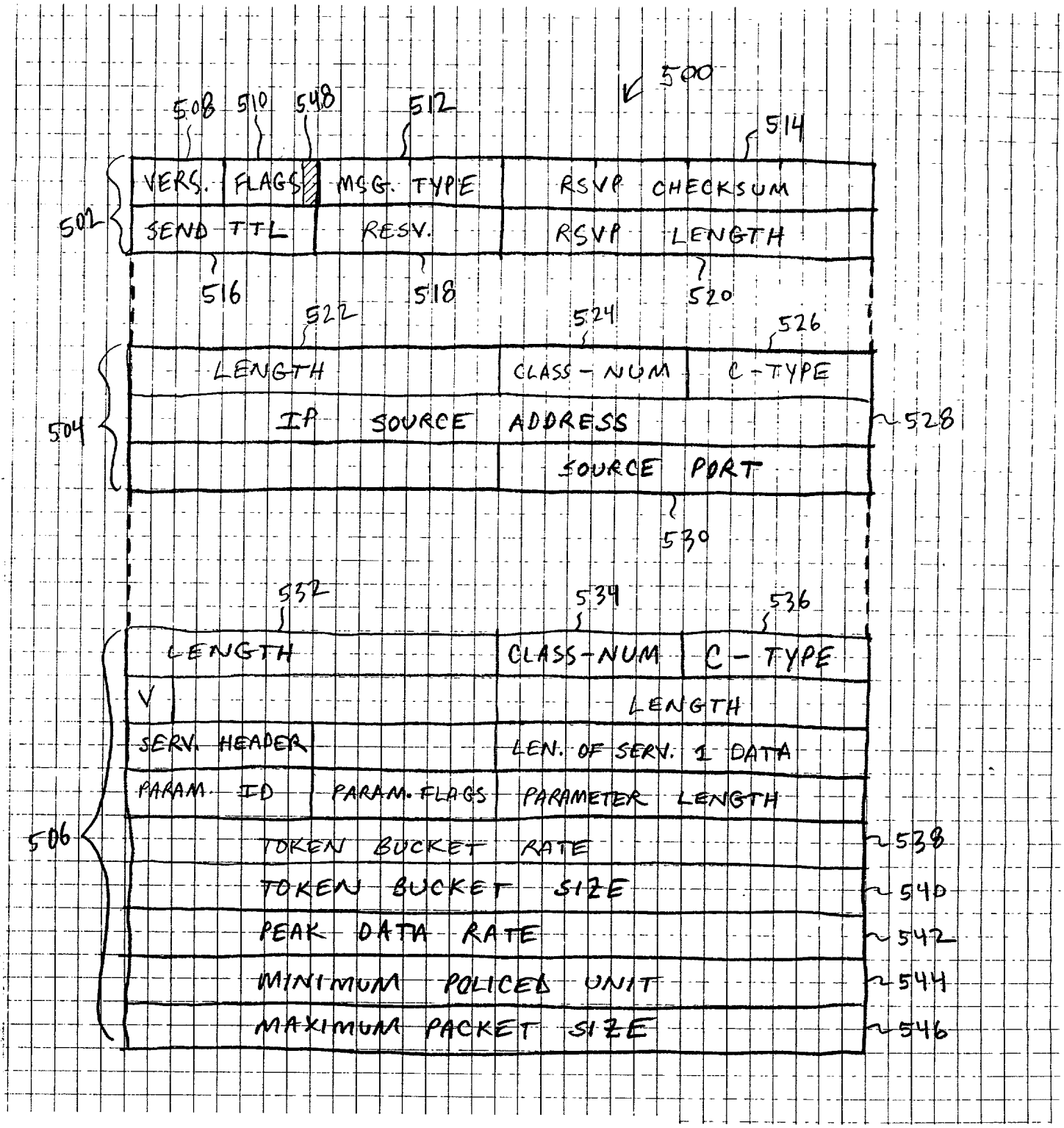
500
508
510
548
512
514
VERS.
FLAGS
MSG. TYPE
RSVP CHECKSUM
SEND TTL
RESV.
RSVP LENGTH
502
516
518
520
522
524
526
LENGTH
CLASS-NUM
C-TYPE
IP SOURCE ADDRESS
528
SOURCE PORT
504
530
532
534
536
LENGTH
CLASS-NUM
C-TYPE
V
LENGTH
SERV. HEADER
LEN. OF SERV. 1 DATA
PARAM. ID
PARAM. FLAGS
PARAMETER LENGTH
506
TOKEN BUCKET RATE
538
TOKEN BUCKET SIZE
540
PEAK DATA RATE
542
MINIMUM POLICED UNIT
544
MAXIMUM PACKET SIZE
546

FIG. 5

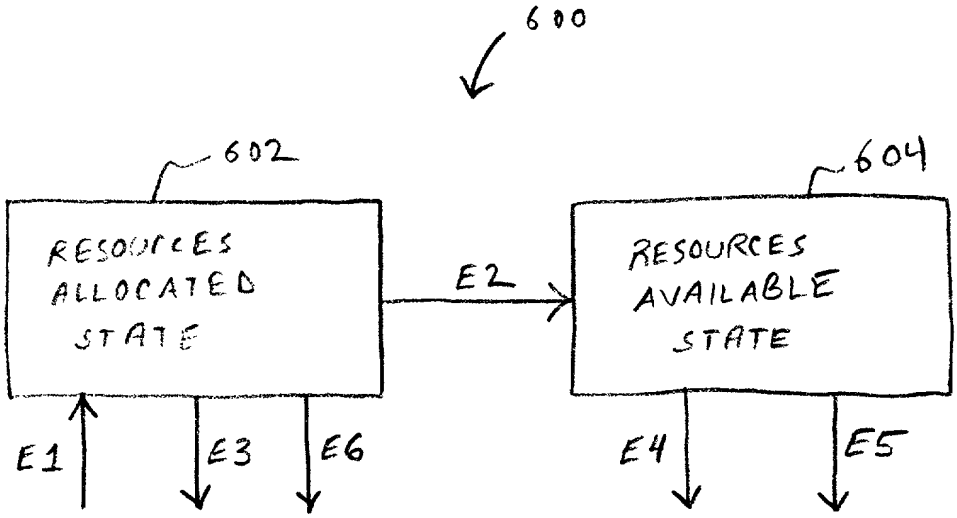

FIG. 6

700

EVENT	DESCRIPTION	
E1	two phase reservation flag of received RSVP Resv message is asserted and reservation passes admission control	702
E2	two phase reservation flag of received RSVP Resv message is deasserted and matching reservation was in resources allocated state	704
E3	first time-out period expires	706
E4	second time-out period expires prior to receipt of RSVP Resv that refreshes the resources allocated state	708
E5	RSVP teardown message identifying the corresponding reservation is received	710
E6	RSVP teardown message identifying the corresponding reservation is received	712

FIG. 7